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## Lift maximization for a smooth contour placed in flow with a vortex

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### Abstract

For a smooth contour placed in an inviscid incompressible potential flow with a vortex, a contour shape and a vortex location are determined for which the lift coefficient is maximal. © 2010 Pleiades Publishing, Ltd.

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### Keywords

Inviscid incompressible fluid, Lift, Numerical analysis, Optimization, Point vortex, Theory of complex variable functions